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Aeronautical
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Title : Failure of an Aeroengine
Fuel Pump

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Abstract :

A flying accident was caused due to the failure of a fuel pump. The failure could be attributed to wear of springs inside hollow pistons, causing metal particles blocking the orifice in the spring seat. This led to starvation of lubrication and hence friction and adhesive wear of slipper pads resulting in torsional overload of the quill shaft and its fracture, making the pump ineffective.